UNCLASSIFIED

AD NUMBER

AD367473

CLASSIFICATION CHANGES

TO: unclassified

FROM: confidential

LIMITATION CHANGES

TO:

Approved for public release, distribution unlimited

FROM:

Distribution: USGO: others to Director, Defense Atomic Support Agency, Washington, D. C. 20301.

AUTHORITY

DSWA ltr., 18 Apr 1997; DSWA ltr., 18 Apr 1997

THIS PAGE IS UNCLASSIFIED

XRD	CONFIDENTIAL	LIBRARY COTT 105
V	BUREAU OF SHIPS	GROUP
TEC	CHNICAL INSPECT	ION REPORT.
နာ	lassification (Generalized) (Chang to CON by Authoritin of Joint Chiefs of Scaff (Act Date 24	FIDENTIAL,
243	OPERATION CROSS R	
98	JU.S.S. PILOTFISH	
	TEST BAKE	EREUJ.®
U. S. COVE FROM DDC.	ERNMENT AGENCIES MAY OBTAIN COPIES OF THIS REPORT OTHER QUALIFIED DDC USERS SHALL REQUEST THROUGH	ORT DIRECTLY of the DUGH ARMED FORCES
(9)	Washington, D. C. 20301	Y SPECIAL NEAPONS PROJECT
(D) 199	Bureau of Ships group tech Gaasterland. 47. GERMINEN CROCCE	C derive
	16P. DIRECTOR OF SHIP MA	THEIRE S 1985
	JOINT TASK FORCE	ONE JISM &
	CONFIDENTIAL	REG. NO3_
		GROUPS JAWAS 55 Downgraded at ear intervals; Not automatical declaratified.

BUREAU OF SHIPS GROUP TECHNICAL INSPECTION REPORT

Classification (Cascalled) (Changed to CONFIDENTIAL)

By Authority of Seint Chiefs of Staff (Action 15 Apr 49)

By Authority of Seint Chiefs of Staff (Action 15 Apr 49)

By Affilia Date 2 19

U. S. COVERNMENT AGENCIES MAY OBTAIN COPIES OF THIS REPORT DIRECTLY FROM DDC. OTHER QUALIFIED DDC USERS SHALL REQUEST THROUGH

Director
Defense Atomic Support Agency
Washington, D. C. 20301

SUBMITTED:

C. L. GAASTERLAND, Commander, U.S.N.

APPROVED:

CONFIDENTIAL ptain, U.S.N.

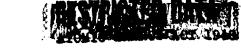


USS PILOTFISH (SS386),

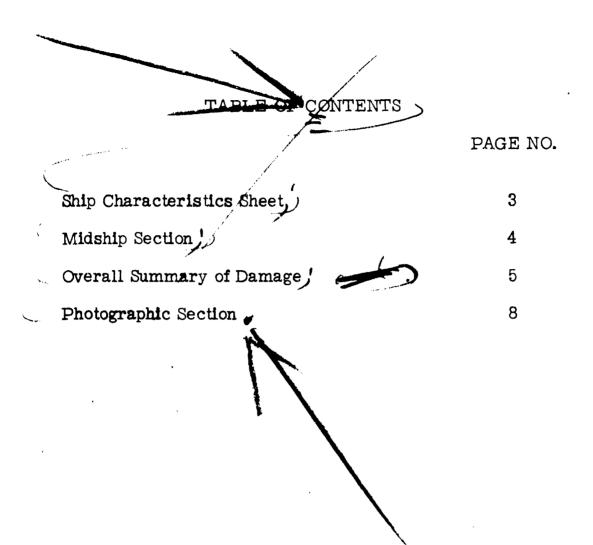
Page 1 of 16 Pages

GROUP-3 JAN 1965

Downgraded at 12 year intervals;
Not automatically declassified.







USS PILOTFISH (SS386)

Page 2 of 16 Pages

U.S.S. PILOTFISH (SS386)

SHIP CHARACTERISTICS

Building Yard: Portsmouth Naval Shipyard.

Commissioned: 16 December 1943.

HULL

Heavy Hull Construction.

Length Overall: 311 feet 9 inches.

Length (between perpendiculars): 307 feet 0 inches.

Beam (extreme): 27 feet 3 inches.

Beam (molded): 27 feet 1 3/4 inches.

Drafts (at time of test): Submerged. Standard Displacement: 1525 tons.

Displacement (at time of test): 2405 tons.

MAIN PROPULSION PLANT

Main Engines: Four Fairbanks-Morse, 10 cylinder,

Type 38D8.

Auxiliary Engine: Fairbanks-Morse, 7 cylinder,

Type 38D5.

Main Motors and Generators: Elliott.

Main Storage Battery: Exide. Main Controls: Westinghouse.

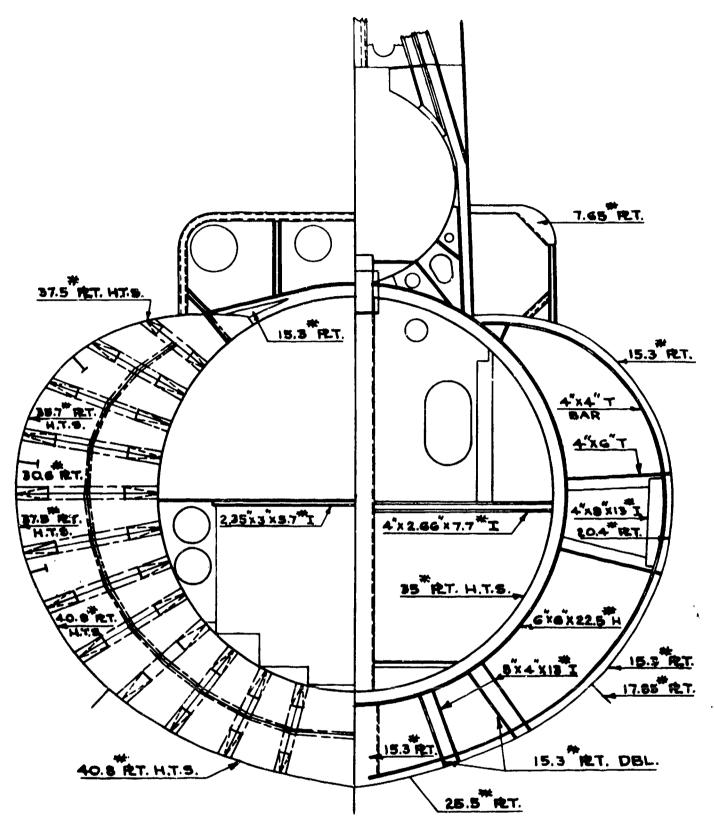
Reduction Gears: Westinghouse.

Diesel Electric Drive.

SECRET

USS PILOTFISH (SS386)

Page 3 of 16 Pages



TYPICAL SECT. AT FR. 69
LOOKING AFT

TYPICAL SECT. AT FR.53 LOOKING FORD.

TEST B

SECRET

U.S.S. PILOTFISH SS 386

PAGE 4 OF 16

TECHNICAL INSPECTION REPORT

OVERALL SUMMARY

- I. Target Condition After Test.
 - (a) Drafts after test; list; general areas of flooding, sources.

Shin is resting on bottom with an indeterminate amount of flooding. The hull is covered to about three quarters height with silt and coral.

(b) Structural damage.

In way of the after torpedo room the plating between frames is dished to a depth of about six inches. The superstructure and tank tops are dished in several locations and the superstructure plating has numerous tears and holes. See photograph on page 9. Complete examination is not possible. Superstructure has shifted to starboard about six inches amidships and one inch at the stern. This shift makes salvage connections inaccessible unless part of the deck is cut away.

(c) Other damage.

Unknown.

- II. Forces Evidenced and Effects Noted.
 - (a) Heat.

No evidence.

(b) Fires and explosions.

No evidence.

(c) Shock.

Unknown.

SECRET

USS PILOTFISH (SS386)

Page 5 of 16 Pages

(d) Pressure.

The "Coordinator's Report on Air Blast and Water Shock for tests Able and Baker" of 27 September indicates that the peak water pressures were over 7000 lbs. per square inch.

- III. Results of Test on Target.
 - (a) Effect on propulsion and ship control.

Unknown.

(b) Effect on gunnery and fire control.

Unknown.

(c) Effect on watertight integrity and stability.

Unknown.

(d) Effect on personnel and habitability.

Unknown.

(e) Total effect on fighting efficiency.

Unknown.

IV. General Summary of Observer's Impressions and Conclusions.

The PILOTFISH was submerged for test Baker in 28 fathoms of water to a keel depth of approximately 56 feet, at a range of approximately 300 yards from the center of the burst. After test Baker she was found on the bottom with a starboard list of approximately 30 - 40 degrees. The deck is covered with silt to a depth of 3 - 18 inches. A few pieces of loose coral are resting on the deck. All information has been obtained from exploratory divers' reports. No further information is available. Based on damage observed by divers on SKIPJACK and APOGON, which were farther from the blast, it is considered likely

SECRET

USS PILOTFISH (SS386)

Page 6 of 16 Pages

that all or nearly all compartments are flooded and that the tops of the ballast tanks are no longer tight. It is believed that a comparatively lengthy operation would be required to salvage this ship. See the photographic Section pages 9 to 16 for views of portions of the deck and superstructure taken by underwater photography.

V. Preliminary Recommendations.

None.

SECRET

USS PILOTFISH (SS386)

Page 7 of 16 Pages

PHOTOGRAPHS

TEST BAKER

SECRET

Page 8 of 16 Pages

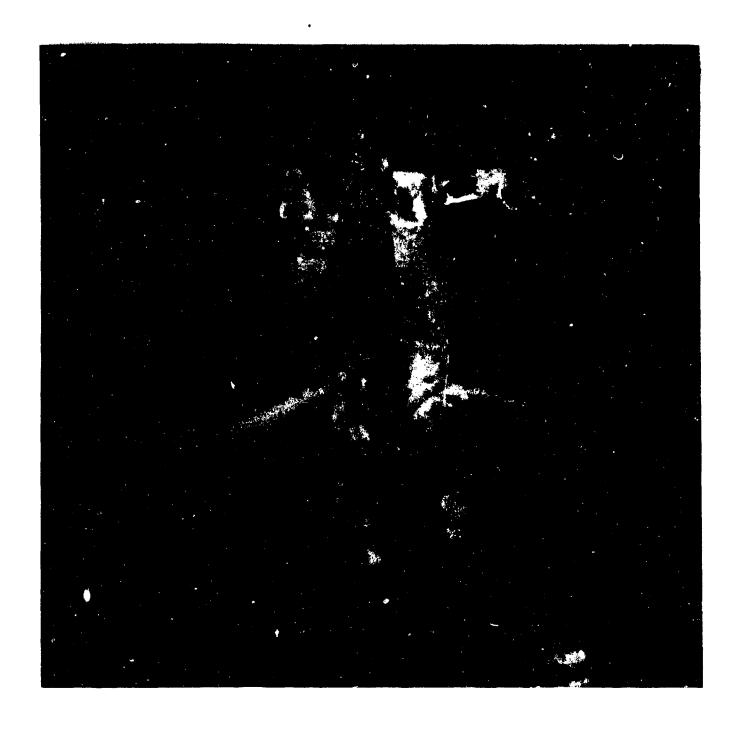


S-36-9. Section near after escape hatch showing caved-in decking and crack running thwartships from salvage fitting to edge of deck.

Page 9 of 16 Pages



S-36-8. Plating at edge of deck looking aft showing angle of submarine relative to ocean floor.



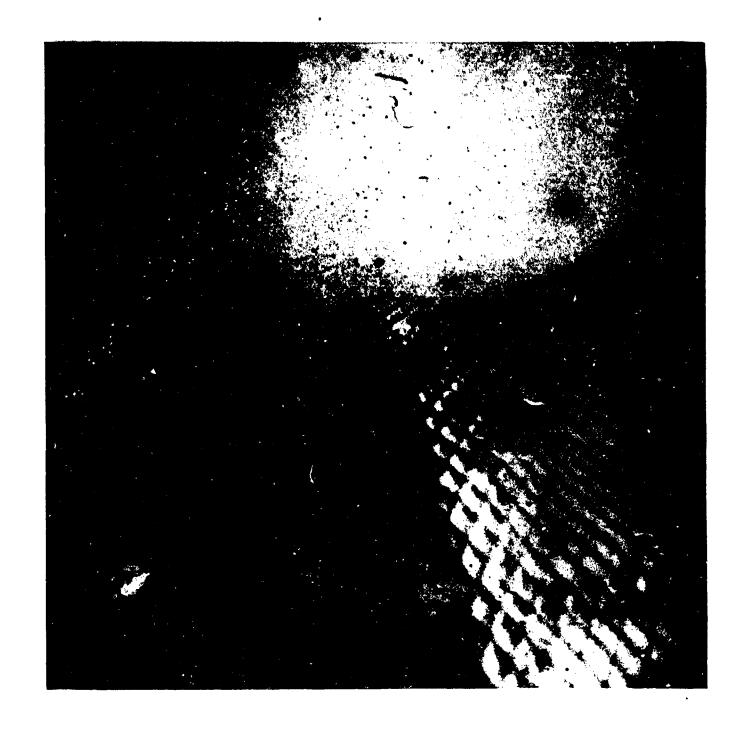
S-39-7. Cleat and line beside former position of salvage fittings just forward of conning tower.



S-39-5. Port side vicinity frame #46 looking thru rauling of bridge deck at gun point.

USS PILOTFISH (SS386)

Page 12 of 16 Pages.



S-39-10. Forward portion of bridge showing netting and amplifier.

SEURET

USS PILOTFISH (SS386)

Page 13 of 16 Pages



S-39-20. Railing of bridge aft.

Page 14 of 16 Pages



S-36-14. Athwartships crack near after capstan. Note intact salvage fittings.



S-39-16. Front of conning tower.



Page 16 of 16 Pages

USS PILOTFISH (SS386)

2949



Defense Special Weapons Agency 6801 Telegraph Road Alexandria, Virginia 22310-3398

TRC

18 April 1997

MEMORANDUM FOR DEFENSE TECHNICAL INFORMATION CENTER ATTENTION: OMI/Mr. William Bush (Security)

SUBJECT: Declassification of Reports

The Defense Special Weapons Agency has declassified the following reports:

,O1 CD.	
✓AD-366588 4	XRD-203-Section 12
AD-366589	XRD-200-Section 9
AD-366590 ∟	XRD-204-Section 13
AD-366591 ►	XRD-183
∕ AD-366586 ℃	XRD-201-Section 10
∠AD-367487.℃	XRD-131-Volume 2-
✓AD-367516 ¥	XRD- \$ 143 ►
✓AD-367493 ८	XRD-142►
AD-801410L ✔	XRD-138
AD-376831L 🗸	XRD-83
AD-366759	XRD-80
✓AD-376830L ❖	XRD-79 ✓
✓AD-376828L 🌂	XRD-76✓
∠ AD-367464. ×	XRD-106 ✓
AD-801404L 🗸	XRD-105-Volume 1
✓AD-367459 🕱	XRD-100✓

Subject: Declassification of Reports

ect:	Declassification of	Reports	
	✓AD-367491 🔾	XRD-134-Volume	2 -
	✓AD-367479 \	XRD-123 /	
	レ AD-367478 ド	XRD-122 ~	
	✓AD-367481 🕊	XRD-125 ✓	
	AD-367500 V .	XRD-159-Volume	2 ringe
	✓ AD-367499 💃	XRD-160-Volume	U
	🗸 AD-367498 💃	XRD-161-Volume	4 🛩
	AD-367512 🗸	XRD-147	
	AD-367511 🗸	XRD-148	
	✓ AD~367465 🗱	XRD-107 ►	
	AD-366733 🗸	XRD-43	
	✓AD-367477 ¥	XRD-121 ✔	
	✓AD-367476 🔫	XRD-120 ►	
	✓AD-367467 💸	XRD-109-Volume	1
	🗸 AD-367475 💘	XRD-119 ✓	
	✓AD-367474 🔾	XRD-118	
	AD~367473 🔥	XRD-117 ✓	
	AD-367472 🕏	XRD-116 ✓	
	AD-367471 🗶	XRD-115 ►	
	AD-367466 🖈	XRD-108 ✓	
	AD-801405L 🗸	XRD-113	
	AD-367470 💸	XRD-112 ┏	
	AD-367469 🙏	XRD-111 ✔	

TRC

Subject: Declassification of Reports

AD-801406L ✓ XRD-114.

In addition, all of the cited reports are now approved for public release; distribution statement "A" now applies.

Sondeth Janets ARDITH JARRETT

Chief, Technical Resource Center